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|  | submitted by:  **Daoud hussain**  (Sp21-bcs-102)  **Subject:**  **Object oriented Programming**  submitted to:  **mam shaneela**  date of submission:  **february 15th, 2021** |

Document Class:

public class Document{

String text;

public String toString(){

return text;

}

public Document(String t){

text = t;

}

public void setText(String t){

if(t!=""){

text = t;

}

}

}

Email Class:

public class Email extends Document{

String sender, recepient, title;

public Email(String te,String s, String r, String t){

super(te);

sender = s;

recepient = r;

title = t;

}

public String toString(){

text = "TITLE: " + title + " SENDER: " + sender + " RECEPIENT: " + recepient +" BODY: " + text;

return text;

}

}

File Class:

public class File extends Document{

String pathName;

public File(String t, String p){

super(t);

pathName = p;

}

public String toString(){

text = " BODY: " + text + " PATH: " + pathName ;

return text;

}

}

Document Runner:

public class Runner{

public static void main(String[] args) {

File f = new File("HEllo My name is Daoud Hussain. I am a student of BCS 3B. I am working on a Java class text","gmail.com/inbox");

Email e = new Email("HEllo My name is Daoud Hussain. I am a student of BCS 3B. I am working on a Java class text","Ali", "Najam", "Fee Clarification");

Document doc = new Document("HEllo My name is Daoud Hussain. I am a student of BCS 3B. I am working on a Java class text");

System.out.println(e.toString());

searchKeyWord(doc, "Daoud");

}

public static boolean searchKeyWord(Document d, String key){

if(d.text.contains(key)){

return true;

}

return false;

}

}